

DISC STABILIZATION SYSTEM

ABSTRACT OF THE DISCLOSURE

A disc stabilization system comprises a spinning disc with a disc surface
5 deflectable by shock. The disc surface is in contact with a gas layer adjacent the
disc surface. When the suspension system is subjected to a mechanical shock, the
disc can deflect. The amplitude and duration of the deflection due to mechanical
shock is limited by a wing feature. The wing feature includes an aerodynamic
surface that interacts with the gas layer to generate an aerodynamic force on the
10 disc surface. A strut supports the wing feature over the disc surface in a position
such that the aerodynamic force increases as the disc surface deflects toward the
aerodynamic surface.